

Operating/Service Instructions

RIDING MOWER

IMPORTANT

SAFE OPERATION PRACTICES - RIDING MOWERS

Model Nos.

132-480 34" Recoil

132-485 34" Electric

191-468 Snow Blower

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine (motor).
6. Disengage power to attachments and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage—exhaust fumes are dangerous. Do not run engine (motor) indoors.
17. Keep vehicle and attachments in good operating condition and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
19. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
20. Allow engine to cool before storing in any enclosure.
21. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
22. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.
23. Do not change engine governor settings or over-speed engine.
24. When using vehicle with mower:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine (motor) is running if operator must dismount to do so.
 - (3) Shut engine (motor) off when removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
25. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

ASSEMBLY

GRASS CATCHER Model No. 192-110 is available as optional equipment for the mowers shown in this manual.

WARNING

1. The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-121.

IMPORTANT: After striking a foreign object, stop the engine (motor). Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

The steering wheel and seat, with the necessary hardware, are easily assembled to the machine.

- Step 1. Remove the lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
- Step 2. Line up the hole in the steering column with the hole in the steering wheel.
- Step 3. Drive in roll pin A with a hammer being careful not to hit the plastic steering wheel. See figure 2.
- Step 4. Press the cap on the steering wheel by hand. See figure 2.

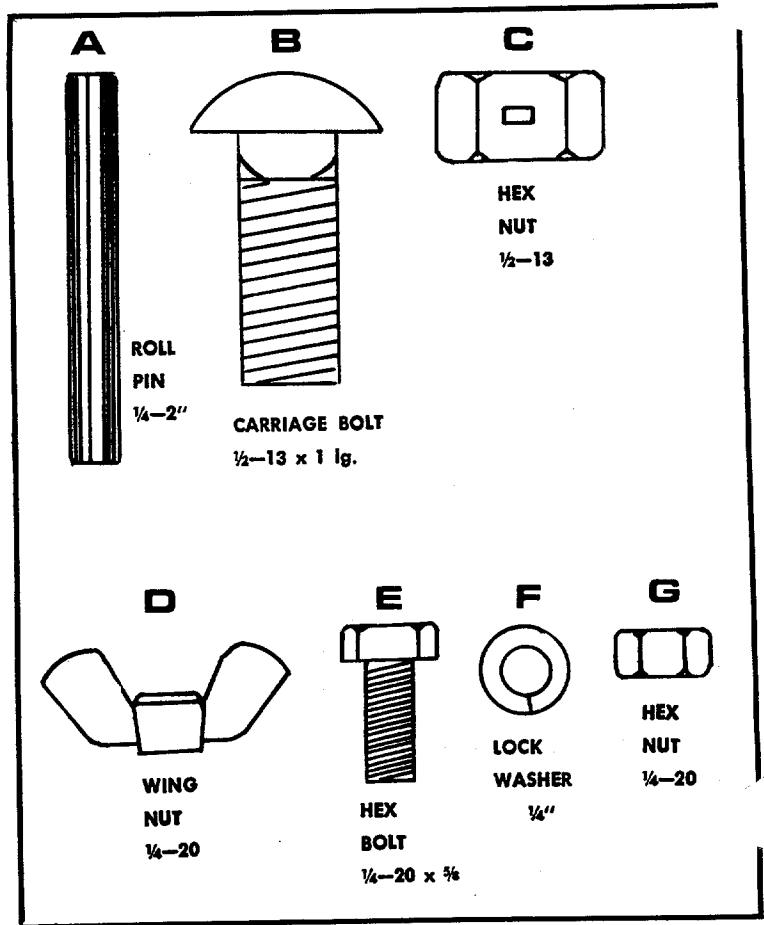


FIGURE 1. HARDWARE SUPPLIED



FIGURE 2. STEERING WHEEL ASSEMBLY

- Step 5. Hook the large carriage bolt B into the bottom of the seat as shown in figure 3.
- Step 6. Place the seat on the seat spring and secure with hex nut C. See figure 4.

NOTE

The seat is adjustable using any one of the four mounting holes.

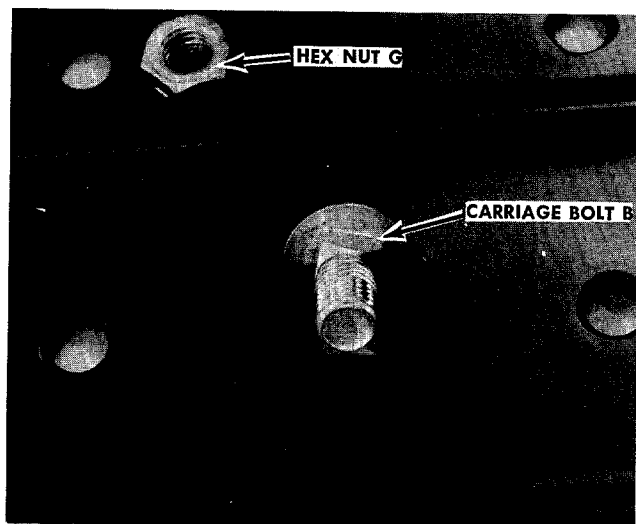


FIGURE 3. ATTACHING SEAT BOLT

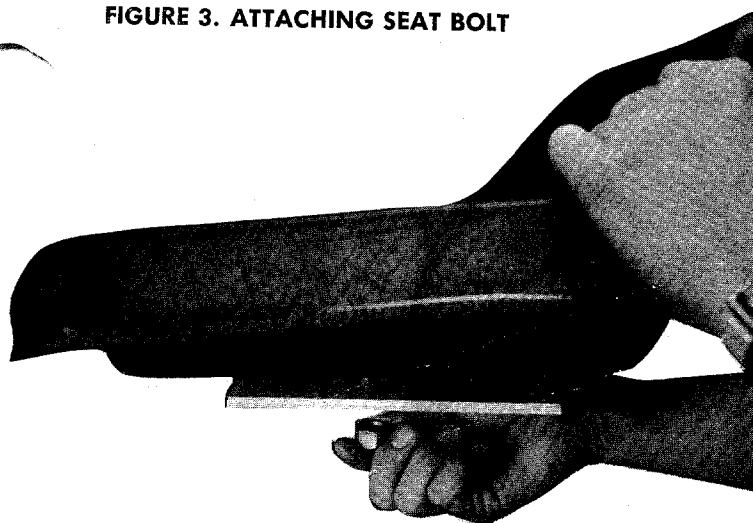


FIGURE 4. SEAT ASSEMBLY

Step 7.

WARNING

Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding. If acid is accidentally spilled on battery during filling or charging, or on bench or clothing, etc., flush off with clear water and neutralize with soda or ammonia solution.

1. Place battery to be filled on bench or workbench. Never activate battery in mower. Remove vent plugs from all cells.

2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to $\frac{3}{8}$ " above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes. Battery can then be installed, however, to have maximum capacity the battery should be placed on a charger after the 20 minutes setting period. Battery can be charged at maximum of 35 amperes until the specific gravity reading is 1.265-1.275.
4. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and recharge.
5. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells. Coat the terminals with a thin coat of grease.
6. If the battery is not going to be used in the winter, remove the battery and store in a cool, dry place. Do not store directly on a concrete floor as this will drain the battery. Recharge whenever the specific gravity is less than 1.225.
7. Install the battery.
 - a. Open the hood of the mower.
 - b. Place the battery with the terminals to the FRONT in the battery case. See figure 5.
 - c. Hook both hold-down rods under the battery case and place the hold down over the battery caps and secure with wing nuts D.

CAUTION

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

- d. Attach the free end of the positive cable and the small wire from the ammeter, to the positive battery terminal with bolt E, washer F and nut G. The battery terminal is marked +.
- e. Attach the free end of the negative cable to the negative terminal with bolt E, washer F and nut G. Battery terminal is marked -.

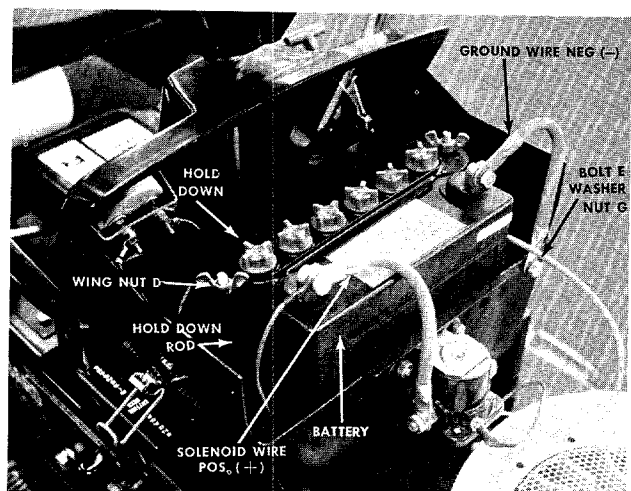


FIGURE 5. INSTALLING THE BATTERY

CONTROLS

CONTROLS

The controls on both models may be considered as the Drive Control and the Cutting Control as follows:

a. **Throttle Control.** The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from $\frac{3}{4}$ to full throttle when operating the cutting deck or snow thrower (optional). See figure 6.

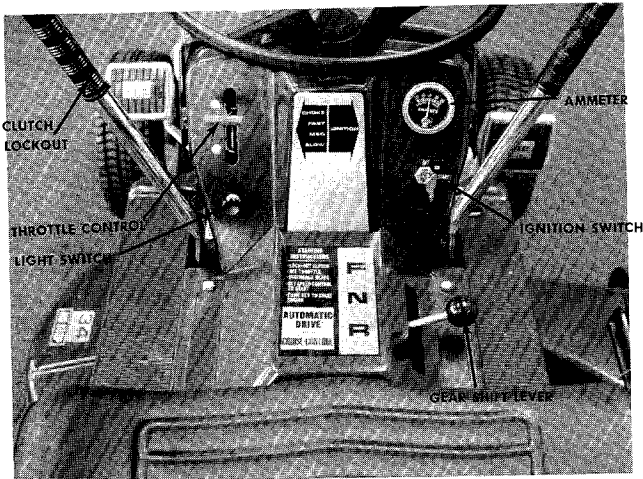


FIGURE 6. CONTROLS

b. **Gear Shift Lever.** The gear shift lever is used to shift into FORWARD, NEUTRAL or REVERSE. See figures 6 and 7.

c. **Brake.** The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 8.

d. **Brake Lock.** The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 8.

e. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will slow you down or, if depressed all the way, will stop the mower. See figure 9.

f. **Clutch Lockout.** When the clutch pedal is depressed all the way it can be locked by placing the clutch lockout in the START position as shown in figure 9. The clutch lockout must be in this position before the engine will start.

g. **Stop Lever.** The stop lever allows you to regulate the maximum ground speed of the riding mower by setting the stop lever in any one of the five settings. The farther forward the stop lever is set, the faster your ground speed. See figure 9.

h. **Ammeter. (Electric Start Model Only.)** The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (+) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See figure 6.

i. **Light Switch. (Electric Start Only.)** Pull the light switch out to turn on the lights. The lights will only operate when the engine is running. See figure 6.

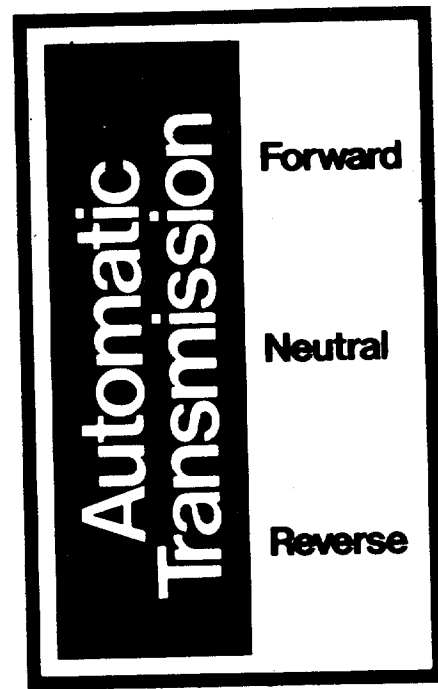


FIGURE 7. SHIFT PATTERN



FIGURE 8. RIGHT HAND CONTROLS

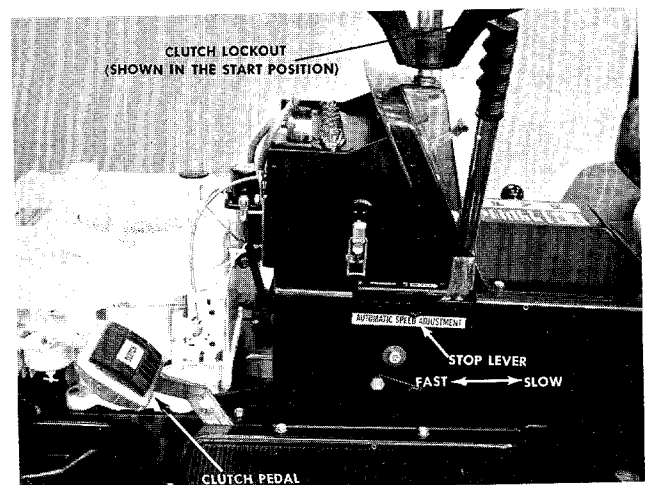


FIGURE 9. LEFT HAND CONTROLS

j. Ignition Switch. The ignition switch is located on the right side of the dashboard.

Recoil Model. See figure 10. Turn the key to the ON position when starting the engine. To stop the engine turn the key to the left to the OFF position and remove the key to prevent accidental starting.

Electric Start. See figure 6. Turn the key to the START position to start the engine. When the engine is running, let the key return to the ON position. To stop the engine, turn the key to the left to the OFF position and remove it to prevent accidental starting.

NOTE

The engine will not start unless the clutch lockout is in the START position and the lift lever is in the DISENGAGED position.

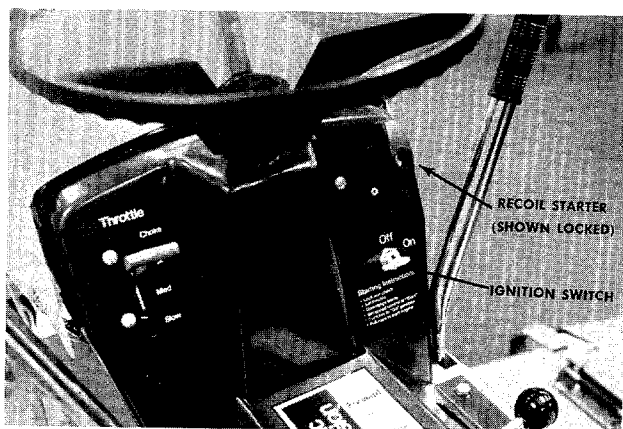


FIGURE 10. RECOIL STARTER

k. Recoil Starter. Model 132-480 Only. The recoil starter is located on the right side of the dashboard. The recoil starter can either be pulled while seated on the rider or pulled while standing behind the rider. The ignition key must be on before the engine will start. After the engine starts, the recoil starter handle must be returned and locked into the dashboard before the blades or clutch are engaged. The engine will stop if you do not follow these instructions. See figure 10.

l. Lift and Disengagement Lever. It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blades. The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 8.

m. Cutting Controls. The cutting controls consist of the height of cut stop and the wheel height adjusters.

Height of Cut Stop. See figure 11. Lift the stop and set it at the desired cutting height.

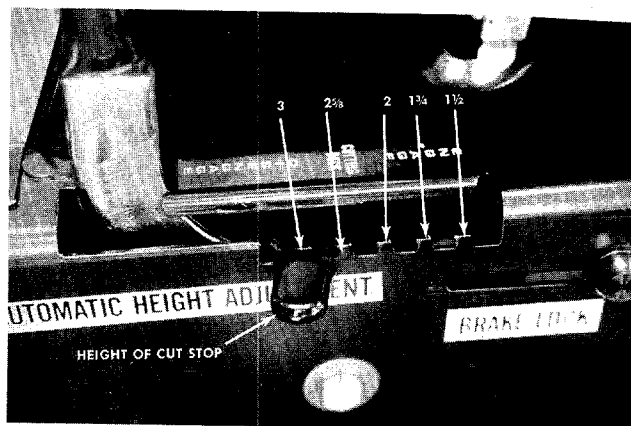


FIGURE 11. HEIGHT OF CUT SETTINGS

Wheel Height Adjuster. See figure 12. Move the lever towards the wheel and set it in the desired cutting height.

The cutting height of the mower can be set in two different ways: **FULL FLOAT** position where the deck follows the contour of the ground, and the **SUSPENDED** position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position, set the wheel height adjusters in the desired cutting height as indicated in figure 12. Set height of cut stop in the 1 1/2 position. See figure 11.

To set the cutting deck in the suspended position, set the height of cut stop in the desired cutting height and then set the deck wheel so they just clear the ground.

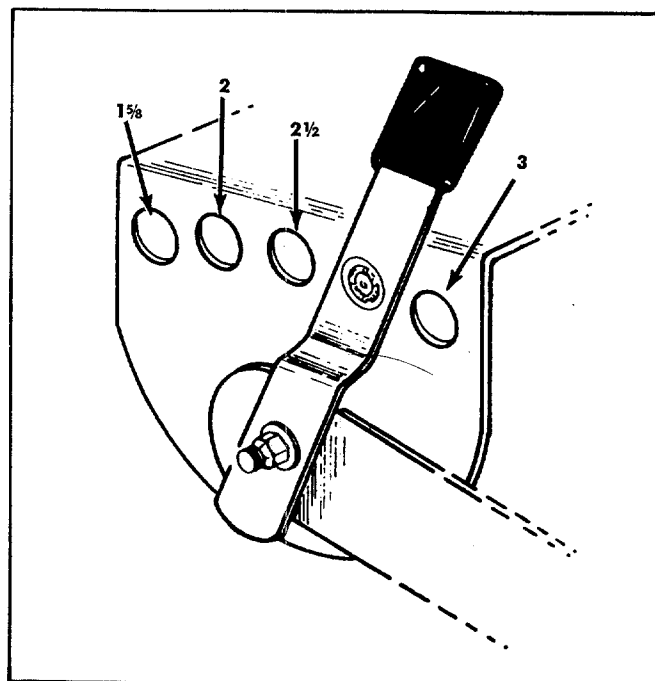


FIGURE 12. WHEEL HEIGHT ADJUSTER

OPERATING INSTRUCTIONS

STARTING THE ENGINE

Be sure to follow the instructions for the oil and gasoline as described in the engine manual.

Step 1. Be sure the fuel shut-off valve is open. See figure 13.

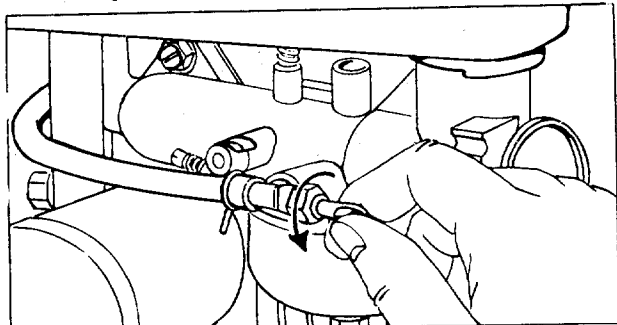


FIGURE 13. FUEL SHUT-OFF VALVE

Step 2. Place the clutch lockout in the START position. See figure 9.

Step 3. Place the lift and disengagement lever in the DISENGAGED position. See figure 8.

Step 4. Set the throttle control in the CHOKE position. See figure 6.

Step 5. Recoil Starter.

- Turn the ignition key to the ON position. See figure 14.
- Grasp the recoil starter, unlock it by twisting it $\frac{1}{4}$ turn and pull it out sharply and hold it in the out position.
- Slowly release the recoil starter and lock it into the dashboard as shown in figure 14.

Electric Start

See figure 15. Turn the ignition key to the START position. When the engine is running, let the key return to the ON position.



FIGURE 14. RECOIL STARTER

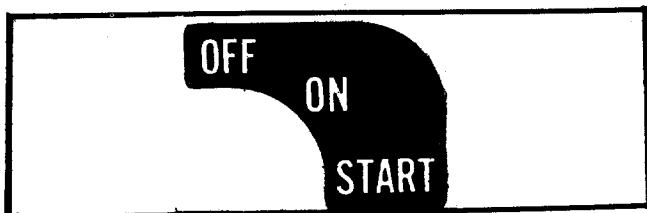


FIGURE 15. STARTER SWITCH

To stop either model, turn the key to the left to the OFF position and remove the key to prevent accidental starting.

NOTE

A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.

STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position and remove the key to prevent accidental starting.

OPERATING THE MOWER

Step 1. Set the desired cutting height.

Step 2. Start the engine as outlined on page 7.

Step 3. Set the stop in the slow position. See figure 9.

NOTE

As you become familiar with the operation of the mower you can move the stop lever to a faster position.

Step 4. While holding down the clutch pedal, move the clutch lockout lever forward.

Step 5. Put the gear shift lever into either FORWARD or REVERSE.

NOTE

DO NOT force the gear shift lever! If the lever cannot be moved from NEUTRAL to one of the drive positions, release the clutch pedal slowly, depress it again, and then move the gear shift lever as required.

Step 6. Once the machine is in motion, remove foot from the pedal. The mower will now move ahead or to the rear, and the use of the steering wheel will provide directional control.

Step 7. The mower is brought to a stop by pressing your right foot against the brake pedal and your left foot against the clutch pedal. The drive belt will be disengaged and the brake will be applied.

CAUTION

Gear changing should be done only after the mower has been brought to a full stop. If the mower is not to be used for a long period, place the gear shift lever in NEUTRAL and stop the engine. DO NOT leave the machine on an incline.

OPERATING THE CUTTER BLADE

The cutting blades may be engaged while the mower is moving or standing still. **DO NOT** engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.

WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening and from the blade.

To stop the blades, move the lift and disengagement lever (figure 8) into the **DISENGAGED** position. This raises the deck and disengages the blades.

NOTE

When the machine is used for other than mowing operations the blade drive should be disengaged.

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick.

After the first five hours of operating a new engine, drain the oil (See figure 16.) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures for minimum wear of engine parts and provides for virtually trouble-free operation. To change the oil, proceed as follows:

Step 1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug. See figure 16.

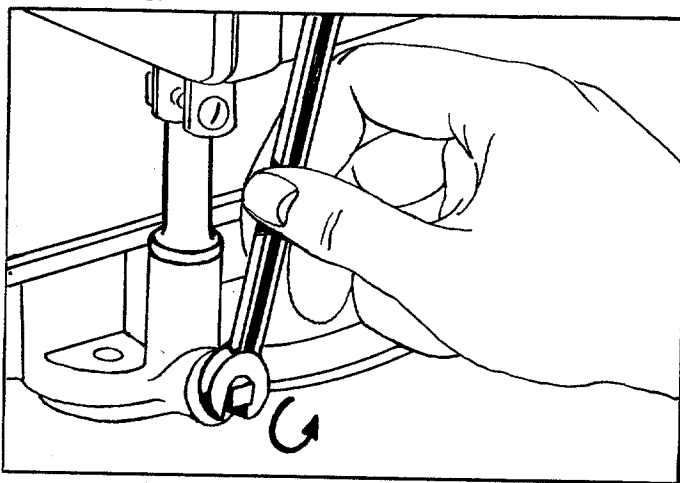


FIGURE 16. OIL DRAIN

Step 2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.

Step 3. Refill crankcase with 2¼ pints of good quality, type MS, Engine oil into the crankcase. Summer use SAE 30; Winter (Below 40° F) use SAE 5W-20 or SAE 10W.

LUBRICATION

Lubricate the wheel bearings (2 per wheel) and the upper and lower spindle bearings with SAE 30 oil once a season. See figure 17.

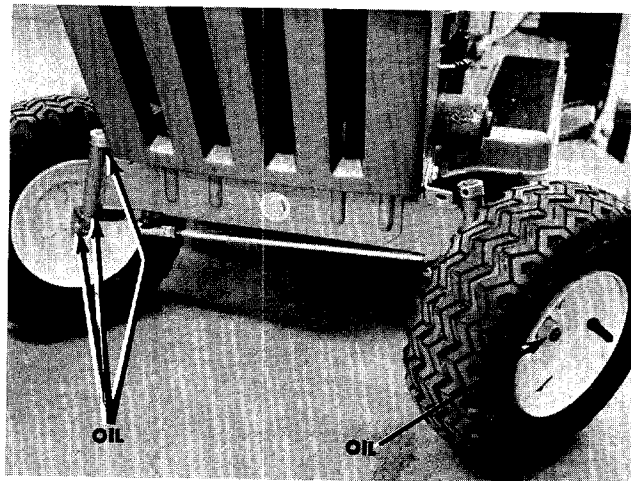


FIGURE 17. WHEEL AND SPINDLE BEARINGS

Lubricate the four rear axle bearings with SAE 30 oil once a season. See figure 18.

The chain can be lubricated by wiping it with an oily rag.

The differential and transmission are sealed at the factory and require no further lubrication.

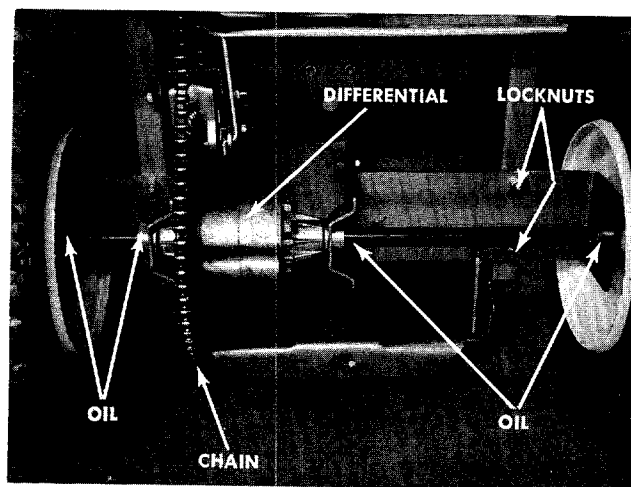


FIGURE 18. REAR AXLE ASSEMBLY

CHAIN ADJUSTMENT

To tighten the chain, loosen two locknuts on each side of rear axle as shown in figure 18.

Tighten the adjusting nuts (figure 19) equally on both sides. Tighten until the chain has ½ inch slack between the sprockets.

The adjusting nuts can be tightened individually to align the axle.

Tighten the 4 locknuts after the adjustment is made.

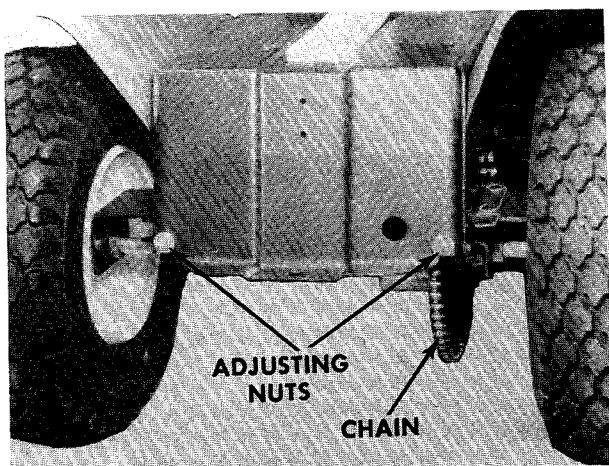


FIGURE 19. CHAIN ADJUSTMENT

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions the air cleaner must be serviced after every hour of operation. Refer to figure 20.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

- Step 1. Remove two screws and lift off complete air cleaner assembly.
- Step 2. Remove screen and spacers from foam element.
- Step 3. Remove foam element from air cleaner body.
- Step 4.
 - a. Wash foam element in kerosene or liquid detergent and water to remove dirt.
 - b. Wrap foam in cloth and squeeze dry.
 - c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.
 - d. Assemble parts, fasten to carburetor with screw.

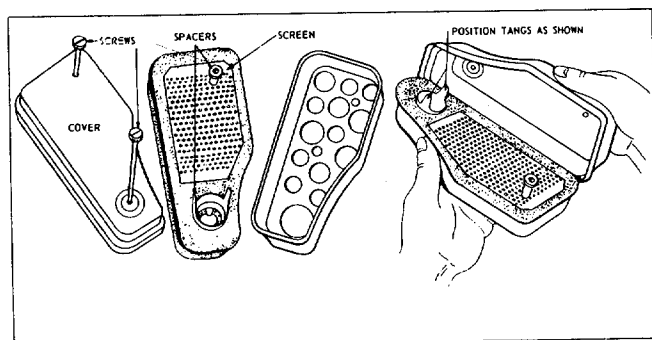


FIGURE 20. AIR CLEANER

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

TIRES

The tires should be inflated to 7 to 10 psi. A punctured tire may be repaired in the same manner as an automobile tire.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.

NOTE

Belt tension is automatically maintained by the spring on the variable speed bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

SPARK PLUG

The spark plug gap should be cleaned and reset to a 0.030-inch clearance every 25 hours of engine operation (See figure 21). Spark plug replacement is recommended at the start of each mowing season; check engine parts list for correct plug type.

NOTE

Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

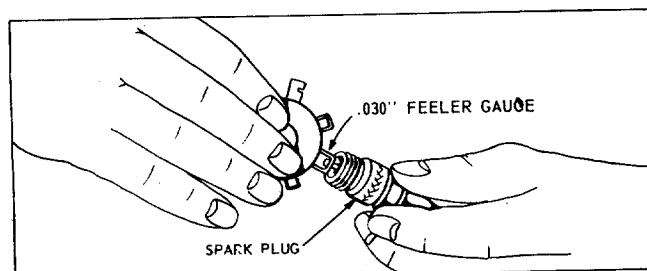


FIGURE 21. SPARK PLUG CLEARANCE

REPLACING BLADE

WARNING

Before beginning work on the cutter blade, remove the spark plug from the cylinder.

Removing and Sharpening Blades. Remove the center bolt and lockwasher. See figure 22. Pull the blade and blade adapter from the blade spindle. The adapter can be removed from the blade by removing the two adapter bolts, lockwashers and nuts.

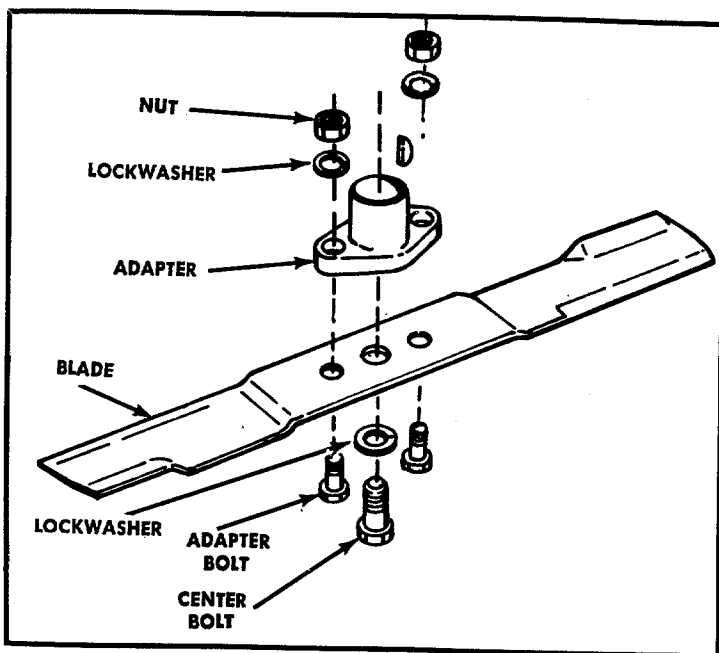


FIGURE 22. BLADE REMOVAL

WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principals have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in follow these steps.

- Step 1. Loosen the hex jam nut on one side. See figure 23.
- Step 2. Remove the elastic locknut and drop the tie rod end out of the wheel bracket.
- Step 3. Adjust the tie rod end in or out to obtain the proper toe-in adjustment as shown in figure 24.

NOTE

Unscrew the tie rod end to toe the wheels in.

- Step 4. Reassemble in reverse order.

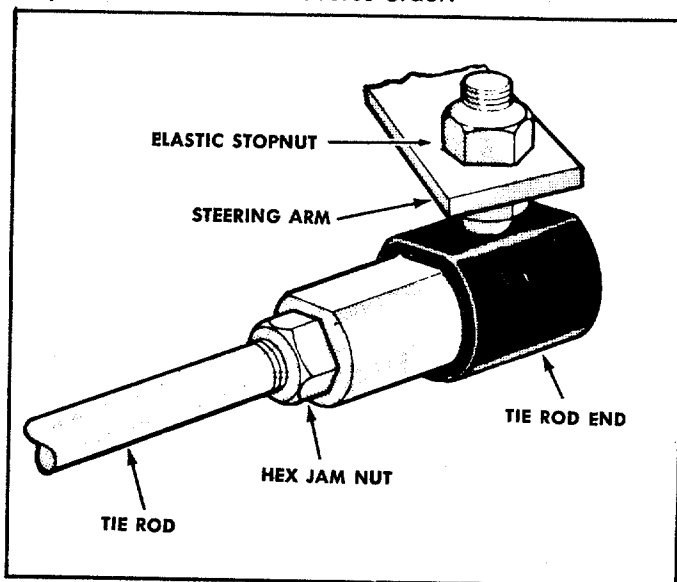


FIGURE 23. TIE ROD ADJUSTMENT

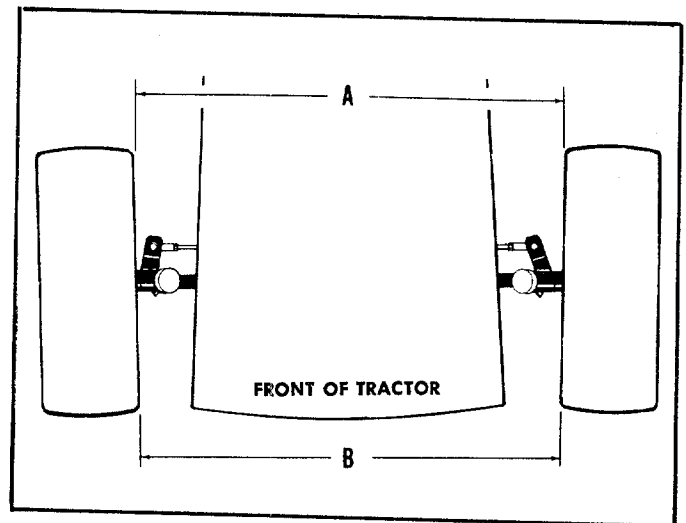


FIGURE 24. TOE-IN DIAGRAM

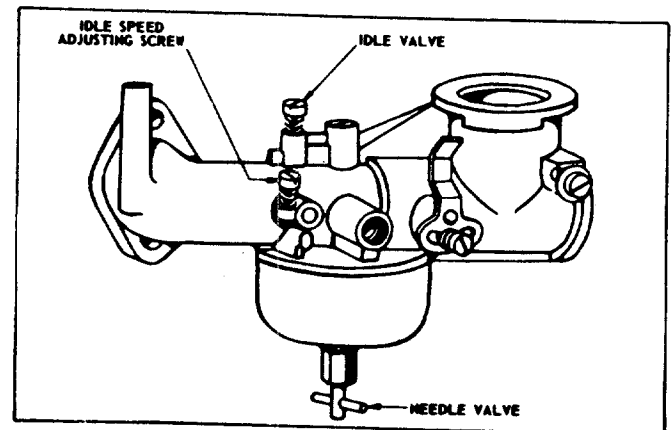


FIGURE 25. CARBURETOR ADJUSTMENT

ADJUSTING CARBURETOR CHOKE

Proper choke operation is dependent upon proper adjustment of remote controls on the powered equipment.

To Check Operation of Choke-A-Matic Controls:

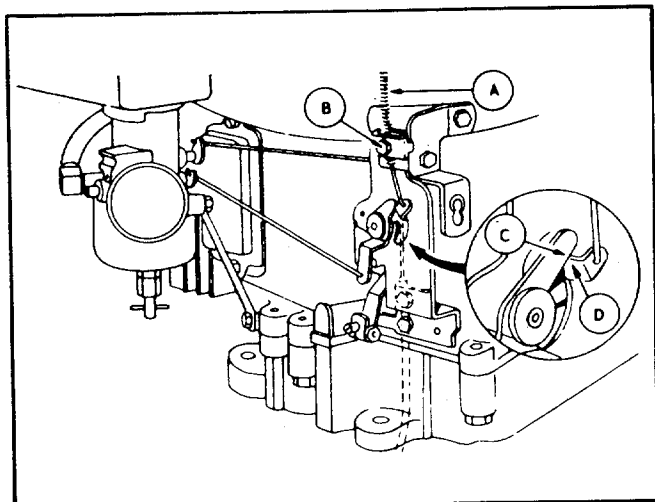
Move control lever to CHOKE position. (See figure 6.) The carburetor choke should be closed.

NOTE

The air cleaner can be removed to check the operation of the choke.

To Adjust:

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 26.



**FIGURE 26. CHOKE ADJUSTMENT
PREPARING FOR BELT REMOVAL**

WARNING

Disconnect the spark plug wire and ground it against the engine.

Step 1. Remove the battery.

WARNING

Disconnect the negative terminal first and connect last when installing the battery.

- Step 2. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of thin plastic over the neck of the gasoline tank and screw on the cap.
- Step 3. Close the fuel shut-off valve as shown in figure 13.
- Step 4. Set the gear shift lever in F or R (See figure 7.) Place your hands under the front axle and lift the unit up until it tips back and rests on the seat.

MOWING UNIT BELT REPLACEMENT

- Step 1. Place the lift lever in the disengaged position. See figure 8.
- Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 27.

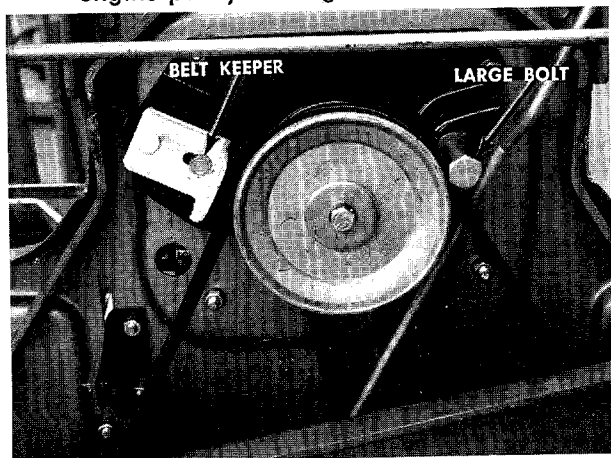


FIGURE 27. BELT KEEPER

Step 3. Unhook the belt from the engine pulley. See figure 28.



FIGURE 28. REMOVING MOWER BELT

Step 4. Place the lift lever in the engaged position. See figure 8.

Step 5. Unhook the tension springs on both sides of the deck. See figure 29.



FIGURE 29. REMOVING TENSION SPRINGS

- Step 6. Remove the front four deck links from the cutting deck. See figure 30.
- Step 7. Remove the belt guards from both deck pulleys. See figure 30.
- Step 8. Remove and replace the belt and reassemble.

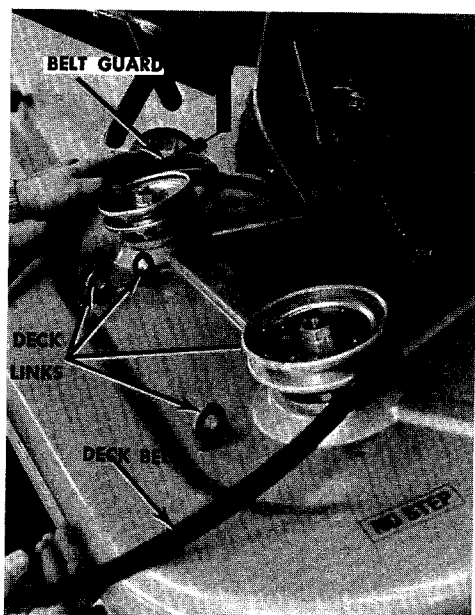


FIGURE 30. DECK LINKS

TRANSMISSION BELTS REMOVAL

- Step 1. Place the lift lever in the disengaged position. See figure 8.
- Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 27.
- Step 3. Unhook the belt from the engine pulley. See figure 28.
- Step 4. Place the lift lever in the engaged position. See figure 8.
- Step 5. Unhook the tension springs on both sides of the deck. See figure 29.
- Step 6. Remove the front four deck links from the cutting deck. See figure 30.
- Step 7. Tip the deck down as shown in figure 30.

NOTE

Leave the belt attached to the deck pulleys unless you want to replace it.

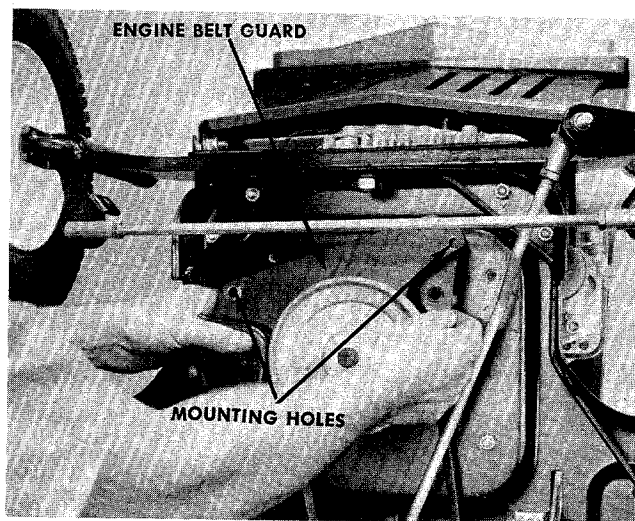


FIGURE 31. BELT GUARD REMOVAL

- Step 8. Remove the engine belt guard by removing the two front engine mounting bolts. See figure 31.
- Step 9. Place the clutch lockout in the START position. See figure 9.
- Step 10. While pushing the variable speed pulley towards the center of the rider, remove the lower belt from the transmission pulley. See figure 32.
- Step 11. Slide the movable center section of the variable speed pulley away from the rider and remove the upper belt from the variable speed pulley. See figure 33.

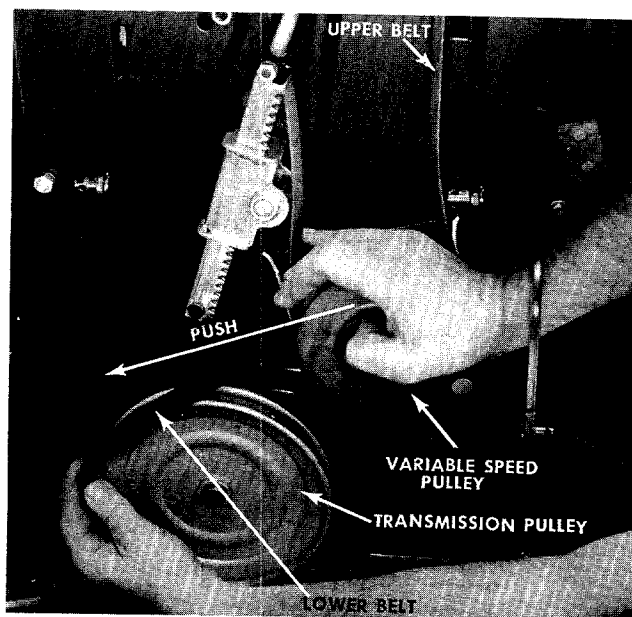


FIGURE 32. LOWER BELT REMOVAL

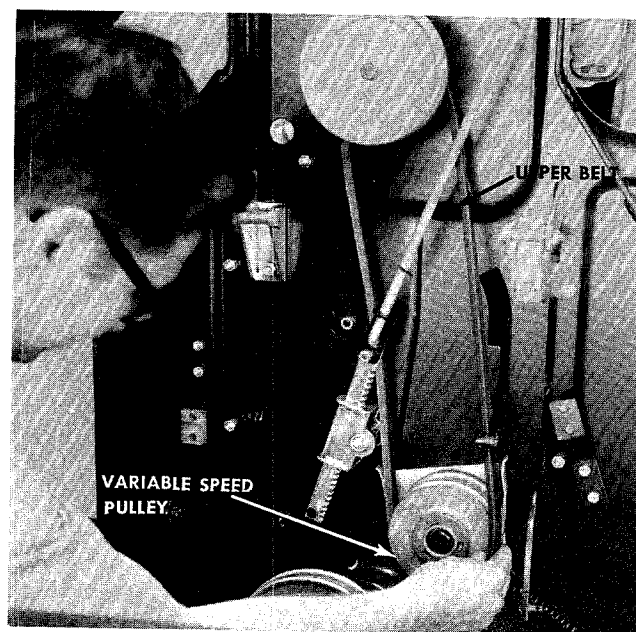


FIGURE 33. REMOVING FROM VARIABLE SPEED

Step 12. Unhook the upper belt from the engine pulley and remove. See figure 34.

Step 13. Reassemble in reverse order with new belts.

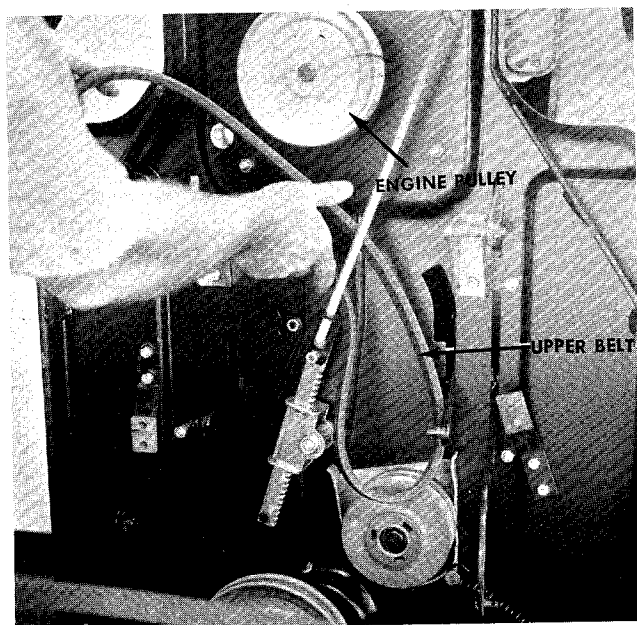


FIGURE 34. REMOVING THE UPPER BELT

BRAKE ADJUSTMENT

To adjust the brake on your rider follow these steps:

- Step 1. Depress the brake pedal and lift the brake lock so the pedal stays in the depressed position. See figure 8.
- Step 2. Place the clutch lockout in the START position. See figure 9.
- Step 3. Try and push the rider. If the rider can be moved tighten the brake adjustment nut as shown in figure 35.

NOTE

The adjusting nut can be reached from the rear of the mower. The transmission cover was removed for the photograph only.

- Step 4. Tighten the adjustment nut one turn and test the mower. Repeat if necessary.

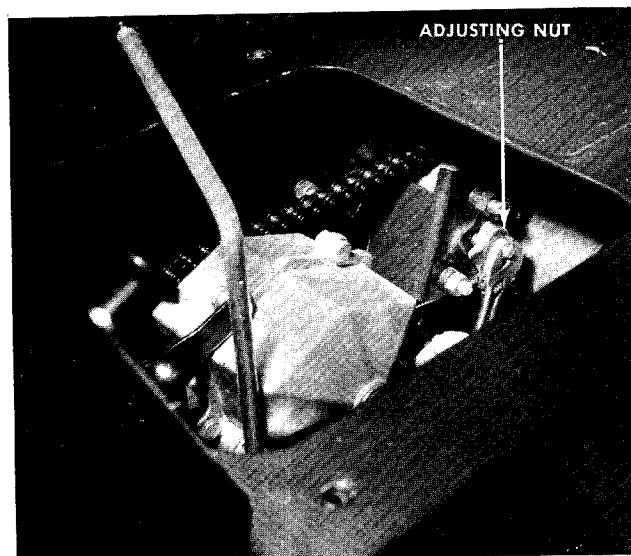


FIGURE 35. BRAKE ADJUSTMENT
OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

- Step 1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

WARNING

Do not drain fuel while smoking, or if near an open fire.

- Step 2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
- Step 3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
- Step 4. Clean the engine and the entire mower thoroughly.
- Step 5. Lubricate all lubrication points indicated in figures 17 and 18 then wipe the entire machine with an oiled rag in order to protect the surfaces.

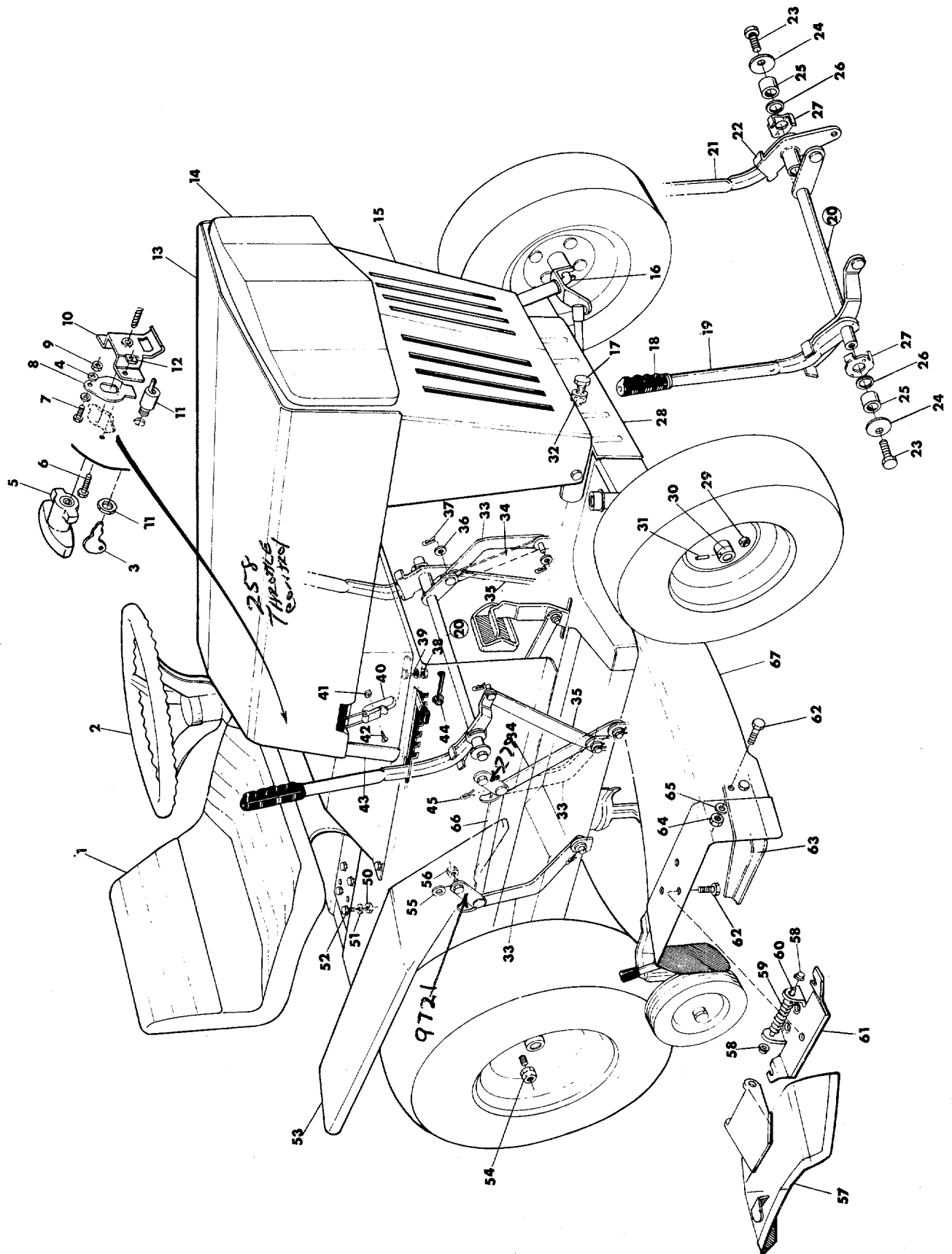


FIGURE 36 RIGHT HAND VIEW

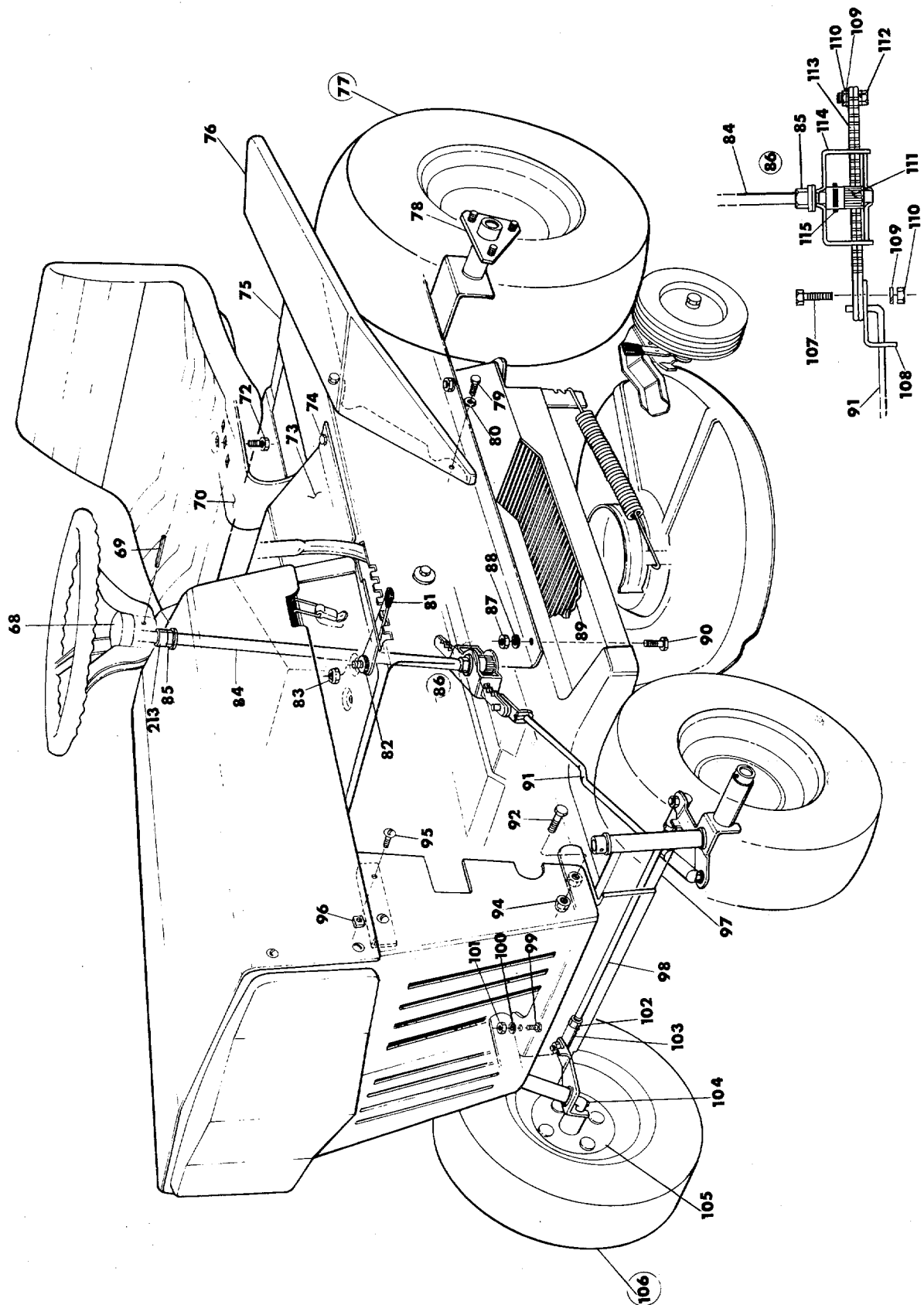


FIGURE 37. LEFT HAND VIEW

NOTE: If for any reason disc brake is disassembled, be sure round end of push pin (Ref. No. 201) is toward the cam lever (Ref. No. 197).

THROTTLE
CONTROL
COMPLETE
746-1600

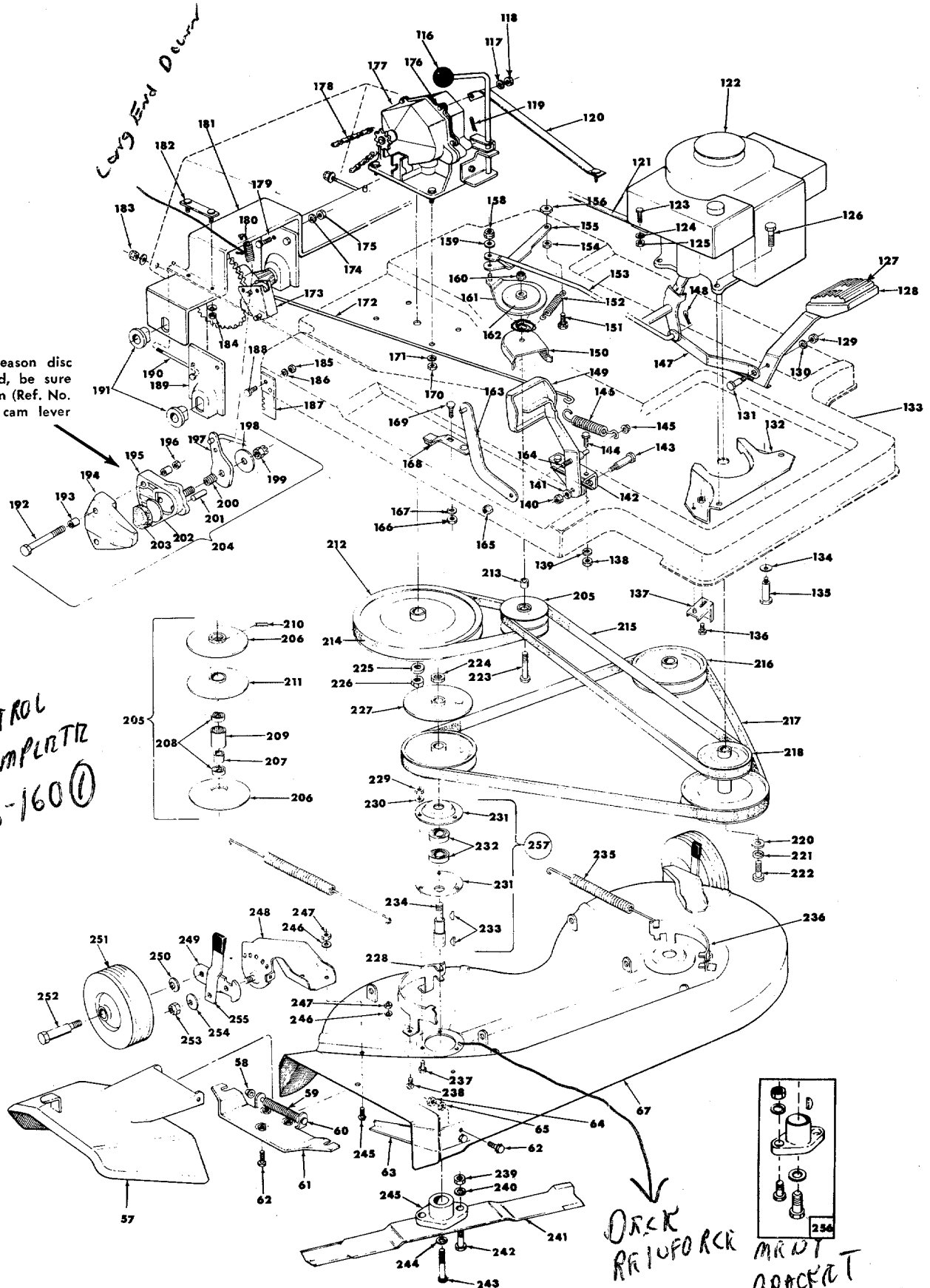


FIGURE 38. DECK AND FRAME VIEW

348-9164

PARTS LIST FOR MODELS 132-480 AND 132-485

When ordering parts, always give the following information as shown in this list:

1. The PART NUMBER

3. The MODEL NUMBER

2. The PART NAME

Do not use Key Numbers when ordering Parts. Always use Part Numbers.

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	757-201	Seat	44	726-121	Push Cap 1/4" Dia.—Black	98	711-256	Tie Rod 3/24 Thd.
2	723-288	Steering Wheel	45	714-101	Hair Pin Cotter 1/2" Dia.	99	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*
3	725-128	Ignition Key (132-480 only)	50	712-267	Hex Nut 5/16-18 Thd.*	100	736-119	Spring Lockwasher 5/16" Scr.*
4	736-338	Fiber Washer (132-480 only)	51	736-119	Spring Lockwasher 5/16" Scr.*	101	712-267	Hex Nut 5/16-18 Thd.*
5	11263	Handle—Plastic (132-480 only)	52	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*	102	712-711	Hex Jam Nut 3/24 Thd.
6	710-351	Truss Hd. Self-Tap Scr. #10 x .50" Lg. (132-480 only)	53	312-8694	Fender—R.H.	103	723-156	Ball Joint Assembly 3/24 Thd.
7	710-425	Truss Hd. Mach. Scr. #10-24 x .62" Lg.* (132-480 only)	54	712-193	Cone Nut 3/24 Thd.	104	437-9095	Axle Assembly—Front R.H.
8	732-257	Switch Spring (132-480 only)	55	736-159	Flat Washer .34 I.D. x .88 O.D.	105	312-9156	Front Wheel Hub Assembly
9	712-121	Hex Nut 10-24 Thd.* (132-480 only)	56	712-267	Hex Nut 5/16-18 Thd.*	106	501-10109	Front Wheel Assembly—Complete
10	11053	Switch Bracket Assembly (132-480 only)	57	11574	Chute Deflector	107	734-298	Front Wheel—Tire Only
11	725-266	Magneto Ignition Switch (132-480 only)	58	726-106	Push-on Flange Palnut	108	710-412	Hex Hd. Cap Scr. 1/4-28 x .75" Lg.
12	712-287	Hex Nut 1/2-20 Thd.* (132-480 only)	59	732-261	Torsion Spring	109	11047	Steering Rod Bracket
13	312-9992	Hood	60	711-571	Pivot Pin	110	736-329	Spring Lockwasher 1/4" Scr.*
14	10497	Head Lamp Bezel (132-480 only)	61	11399	Adapter Plate	111	712-117	Hex Center Locknut 1/4-20 Thd.
15	312-9984	Head Lamp Bezel (132-485 only)	62	710-230	Hex Hd. Cap Scr. 1/4-28 x .50" Lg.*	112	748-203	Spur Gear 12 Teeth
16	437-9985	Head Lamp Panel (Not Shown) Behind Bezel	63	11579	Deck Finger	113	710-412	Hex Hd. Cap Scr. 1/4-28 x .75" Lg.
17	10494	Grille	64	712-117	Hex Center Locknut 1/4-28 Thd.	114	11048	Steering Segment
18	437-9098	Axle Assembly Front—L.H.	65	736-329	Spring Lockwasher 1/4" Scr.*	115	11074	Steering Housing Assembly
19	710-312	Hex Hd. Cap Scr. 5/8-18 x 1.31" Lg. Special	66	437-9735	Connecting Rod 3/16 x 1 x 12.5" Lg.	116	715-120	Spirol Pin 3/16" Dia. x 1.00" Lg.
20	305-8118	Grip	67	11096	Deck Assembly 34 inch	117	722-115	Ball Knob
21	11032	Lift Handle—R.H.	68	723-207	Steering Wheel Cap	118	736-329	Spring Lockwasher 1/4" Scr.*
22	11031	Lift Handle—L.H.	69	715-130	Spirol Pin 3/16" Dia. x 2.00" Lg.	119	712-287	Hex Nut 1/4-20 Thd.*
23	710-201	Clutch Handle Bracket Assembly	70	732-255	Seat Spring 4.50" High	120	714-507	Cotter Pin 3/32" Dia. x .75" Lg.*
24	736-219	Belleville Washer .400 I.D. x 1.13 O.D.	71	710-365	Hex Hd. Cap Scr. 1/2-13 x .88" Lg.	121	10396	Transmission Support Bracket Assy.
25	748-201	Spacer .635 I.D. x .88 O.D. x .57" Lg.	72	710-365	Hex Hd. Cap Scr. 1/2-13 x .88" Lg.	122	11095	Engine Brace
26	736-192	Flat Washer .531 I.D. x .93 O.D.	73	10407	Cover—Upper Frame	123	710-259	Engine
27	11029	Handle Pivot Bracket	74	710-259	Sems Hex Hd. Cap Scr. 5/16-18 x .62" Lg.*	124	736-119	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*
28	10495	Front Pivot Bracket	75	11092	Upper Frame Assembly	125	712-267	Spring Lockwasher 5/16" Scr.*
29	712-798	Hex Nut 3/8-16 Thd.*	76	312-8695	Fender—L.H.	126	710-442	Hex Nut 5/16-18 Thd.*
30	711-169	Collar 3/8" I.D.	77	503-9262	Rear Wheel Assembly—Complete	127	10614	Pedal Pad
31	710-494	Sq. Hd. Set Scr. 5/16-18 x .38" Lg. (Cup Point)	78	10473	Rear Wheel—Tire Only	128	11037	Clutch Pedal Assembly
32	712-923	Hex Lock Nut 5/16-18 Thd.—Special	79	710-289	Hex Hd. Cap Scr. 1/4-20 x 1/2" Lg.*	129	712-798	Spring Lockwasher 3/8" Scr.*
33	10349	Deck Link Assembly (Two Rear and L.H. Front Reversed)	80	736-329	Spring Lockwasher 1/4" Scr.*	130	736-169	Shoulder Bolt .498 x 1.45" Lg.
34	10904	Deck Link Assembly (Front—R.H.)	81	10346	Lockout Link Assembly	131	738-140	Belt Guard Assembly—Engine Pulley
35	10346	Lockout Link Assembly	82	735-126	Rubber Washer .33 I.D. x .87 O.D.	132	10480	Frame Assembly
36	736-159	Flat Washer .34 I.D. x .88 O.D.	83	712-429	Hex Inserted Locknut 5/16-18 Thd.*	133	11090	Belleville Washer
37	714-101	Hair Pin Cotter 1/2" Dia.	84	11052	Steering Shaft	134	736-105	Shoulder Bolt .498" Dia. x 2.00" Lg.
38	712-267	Hex Nut 5/16-18 Thd.*	85	748-238	Flange Bearing .630 I.D.	135	738-129	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*
39	736-119	Spring Lockwasher 5/16" Scr.*	86	712-267	See Exploded View	136	710-259	Belt Keeper Assembly
40	723-209	Hood Latch	87	712-267	Hex Nut 5/16-18 Thd.*	137	10426	Hex Nut 3/8-16 Thd.*
41	712-112	Hex Nut #6-32 Thd.*	88	736-119	Spring Lockwasher 5/16" Scr.*	138	712-267	Spring Lockwasher 5/16" Scr.*
42	710-147	Round Hd. Scr. #6-32 x 3/4" Lg.*	89	723-241	Foot Pad 15-3/4" Lg. x 4.0" Wide	139	736-119	Hex Nut 3/8-16 Thd.*
43	11260	Dash Panel Assembly (132-480 only)	90	710-259	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*	140	712-798	Spring Lockwasher 5/16" Scr.*
	11262	Dash Panel Assembly (132-485 only)	91	711-548	Steering Rod	141	736-169	Spring Lockwasher 3/8" Scr.*
			92	710-253	Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*	142	11039	Pedal U-Bracket Assembly
			93	712-375	Hex Center Locknut 1/4-20 Thd.	143	738-213	Shoulder Bolt .498 x 1.45" Lg.
			94	710-473	Truss Hd. Mach. Scr. #10-24 x .50" Lg.*	144	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x 3/4" Lg.*
			95	712-425	Sq. Nut #10-24 Thd.*	145	726-100	Push Nut 3/8" Rod.
			96	10555	Bar Assembly			

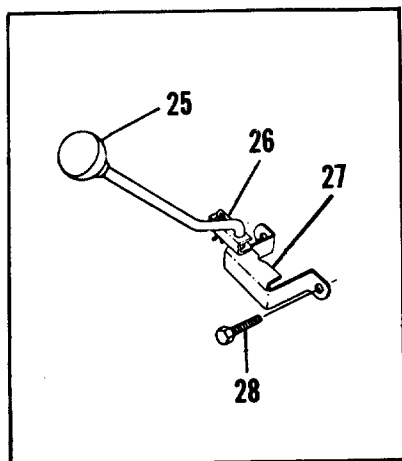
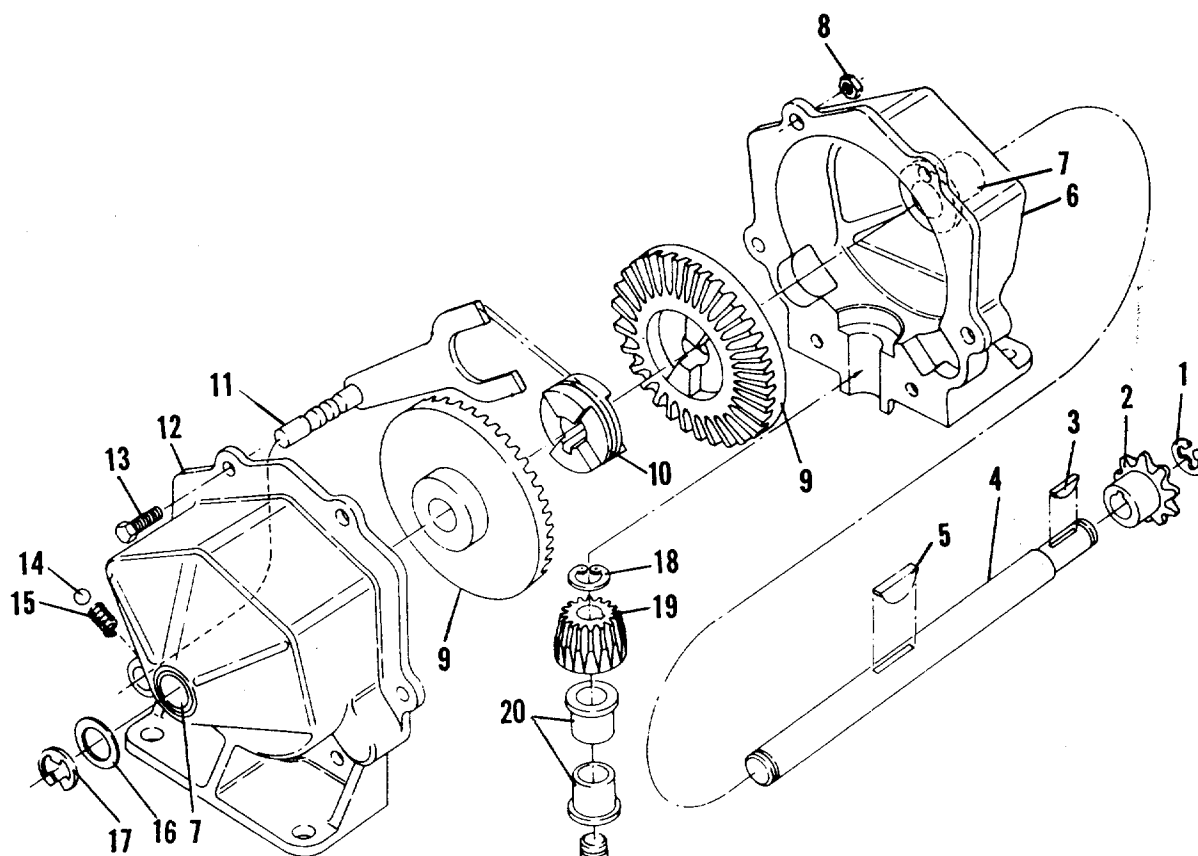
PARTS LIST FOR MODELS 132-480 AND 132-485 CONTINUED

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
146	732-245	Brake Spring	184	712-429	Hex Inserted Locknut 5/16-18 Thd.	223	710-515	Hex Hd. Cap Scr. 5/16-18 x 1.00" Lg.
147	11094	Clutch Connecting Bracket	185	712-287	Hex Nut 1/4-20 Thd.*	224	712-923	Locknut 5/16-18 Thd.
148	714-101	Internal Cotter Pin 1/2" Dia.	186	736-329	Spring Lockwasher 1/4" Scr.*	225	736-921	Spring Lockwasher 1/2" Scr.*
149	11036	Brake Pedal Bracket Assembly	187	10410	Spring Bracket	226	712-922	Hex Jam Nut 1/2-20 Thd.
150	11065	Variable Speed Belt Guard Ass'y.	188	710-238	Hex Hd. Cap Scr. 1/4-20 x 3/8" Lg.*	227	310-9322	Brake Disc (Blade Pulley)
151	710-376	Hex Hd. Cap Scr. 5/16-18 x 1.00" Lg.*	189	10364	Rear Axle Plate	228	10072	Belt Guard—Deck—R.H.
152	732-208	Variable Speed Drive Spring	190	710-437	Chain Adjustment Link 5/16-18 x 4.38" Lg.	229	712-267	Hex Nut 5/16-18 Thd.*
153	11064	Variable Speed Clutch Rod	191	748-151	Flange Bearing with Flats .753 I.D.	230	736-119	Spring Lockwasher 5/16" Scr.*
154	712-267	Hex Nut 5/16-18 Thd.*	192	710-316	Hex Hd. Cap Scr. 3/8-16 x 3 1/2" Lg.	231	310-8253	Housing
155	11072	Variable Speed Link	193	761-138	Spacer for Disc Brake	232	741-919	Ball Bearing
156	711-404	Shoulder Nut 5/16-18 Thd.	194	12-1039-0000	Casting Cam Side	233	714-365	#6 Hi Pro Key 5/32 x 3/8" Dia.
157	746-160	Throttle Control Ass'y—Comp. (Not Shown)	195	12-1041-0000	Casting, Carrier Side	234	711-255	Blade Spindle
158	712-429	Hex Inserted Locknut 5/16-18 Thd.	196	712-375	Hex Center Locknut 3/8-16 Thd.	235	732-191	Spring .75 O.D. x 11.0" Lg.
159	736-159	Flat Washer .344 I.D. x .88 O.D.	197	18-2770-0000	Cam Lever	236	10071	Belt Guard—Deck—L.H.
160	712-922	Hex Jam Nut 1/2-20 Thd.	198	03-1030-0000	Thrust Washer 5/16" I.D.	237	710-322	Sems Hex Hd. Cap Scr. 5/16-18 x 1" Lg.*
161	11067	Variable Speed—Eccenter Assembly	199	02-1011-0000	Locknut	238	710-289	Hex Hd. Cap Scr. 1/4-20 x 1/2" Lg.*
162	11069	Variable Speed Plate Assembly	200	06-1029-0000	Compression Spring	239	712-123	Hex Nut 5/16-24 Thd.*
163	11056	Parking Brake Lever Ass'y, R.H.	201	05-1033-0000	Push Pin	240	736-119	Spring Lockwasher 5/16" Scr.*
165	712-429	Hex Inserted Locknut 5/16-18 Thd.	202	03-1090-0001	Back Up Disc	241	742-120	Blade 17 inch
166	712-287	Hex Nut 1/4-20 Thd.*	203	15-1154-0163	Friction Pad	242	710-117	Hex Hd. Cap Scr. 5/16-24 x 1" Lg. Heat Treated
167	736-329	Spring Lockwasher 1/4" Scr.*	204	761-137	Disc Brake Assembly	243	710-459	Hex Hd. Cap Scr. 3/8-24 x 1 1/2" Lg. Heat Treated
168	761-147	Blade Brake Assembly	205	10438	Variable Speed Pulley Assembly	244	736-217	Spring Lockwasher 3/8" Scr. Heavy Duty
169	710-134	Carriage Bolt 1/4-20 x .62" Lg.	206	748-177	Sheave Half	245	748-189	Blade Adapter
170	712-267	Hex Nut 5/16-18 Thd.*	207	750-146	Spacer .520 I.D. x .692 O.D. x 1.24" Lg.	246	736-329	Spring Lockwasher 1/4" Scr.*
171	736-119	Spring Lockwasher 5/16" Scr.*	208	741-139	Ball Bearing .50 I.D. x 1.38 O.D.	247	712-287	Hex Nut 1/4-20 Thd.*
172	747-106	Brake Rod .25" Dia. x 23.50" Lg.	209	750-144	Steel Tubing	248	11236	Wheel Bracket Ass'y—R.H.
173	10398	Disc Brake Bracket Assembly	210	715-124	Spiral Pin 5/32" Dia. x .62" Lg.	249	10937	Wheel Bracket Ass'y—L.H.
174	736-119	Spring Lockwasher 5/16" Scr.*	211	748-181	Movable Sheave Part—Assembly	250	736-105	Belleville Washer
175	712-267	Hex Nut 5/16-18 Thd.*	212	756-174	Transmission Pulley	251	734-295	5.0" Dia. Deck Wheel Ass'y.
176	710-252	Hex Hd. Cap Scr. 1/4-20 x .75" Lg.*	213	711-494	Spacer .510 I.D. x .760 O.D. x .390" Lg.	252	738-119	Axle Bolt—3/8" Dia. (Cutting Deck Wheel)
177	717-231	Single Speed Transmission	214	754-136	"V"-Belt 21/32 x 31" Lg.	253	712-214	Elastic Locknut 3/8-24 Thd.*
178	713-160	#420 Chain 1/2" Pitch x 87 Links	215	754-138	"V"-Belt 21/32 x 50" Lg.	254	736-105	Belleville Washer
179	710-198	Sems Hex Hd. Cap Scr. 5/16-18 x .75" Lg.*	216	756-124	Blade Pulley	255	10949	Spring Lever Ass'y. with Knob
180	732-157	Spring .38 O.D. x 2.25" Lg.	217	754-151	"V"-Belt 21/32 x 67" Lg.	256	10769	Blade Adapter Kit
181	10362	Rear Axle Bracket Ass'y.	218	756-157	Engine Pulley	257	716-4	THROTTLE CONTROL COMPLETE
182	10360	Axle Bolt Plate Ass'y.	219	310-7386	Flat Washer .39 I.D. x 1 1/4" O.D.	258	746-160	Pivot Link Assy.
183	712-429	Hex Inserted Locknut 5/16-18 Thd.	220	736-167	Spring Lockwasher 3/8" Scr.*			
			221	736-167	Hex Hd. Cap Scr. 3/8-24 x 1" Lg. Heat Treated			
			222	710-152				

437—Flag Red) When ordering parts if color or finish is important, use the appropriate color code shown at left (e.g. Flag Red finish — 11096 (437)).

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.

717-231 REVERSING TRANSMISSION



**FIGURE 39. MODEL 717-231
REVERSING TRANSMISSION**

PARTS LIST FOR 717-231 REVERSING TRANSMISSION

REF. NO.	PART NO.	DESCRIPTION
1	A-1098	Ring Retaining
2	B-1084	Sprocket 81 #41
3	A-1371	Key Woodruff #4
4	B-1139	Shaft, Output
5	A-1154	Key Hi Pro #606
6	D-1234	Housing Half
7	A-1143	Bearing, Flange
8	A-1392	Lock Nut 1/4-20 Thd.
9	C-1543	Bevel Gear 42T
10	C-1555	Clutch Collar
11	A-2252	Detent Shaft Assembly
12	D-1234A	Housing Half with Detent Hole
13	A-1379	Screw 1/4-20 x 3/8 in.
14	A-1151	Ball Detent
15	A-1150	Spring Detent
16	A-1145	Washer
17	A-1106	Ring, Retaining
18	A-1100	Ring, Retaining
19	B-1105	Bevel Pinion 16T
20	B-1542	Bearing Flange
21	C-1747	Shaft Input
22	736-192	Washer
23	736-921	Spring Lockwasher 1/2"
24	712-922	Hex Jam Nut 1/2-20 Thd.
25	A-1318	Knob Shifter
26	B-2320	Shifter Lever Assembly
27	B-1489	Bracket Lever Assembly
28	A-1379	Screw 1/4-20 x 3/8 in.

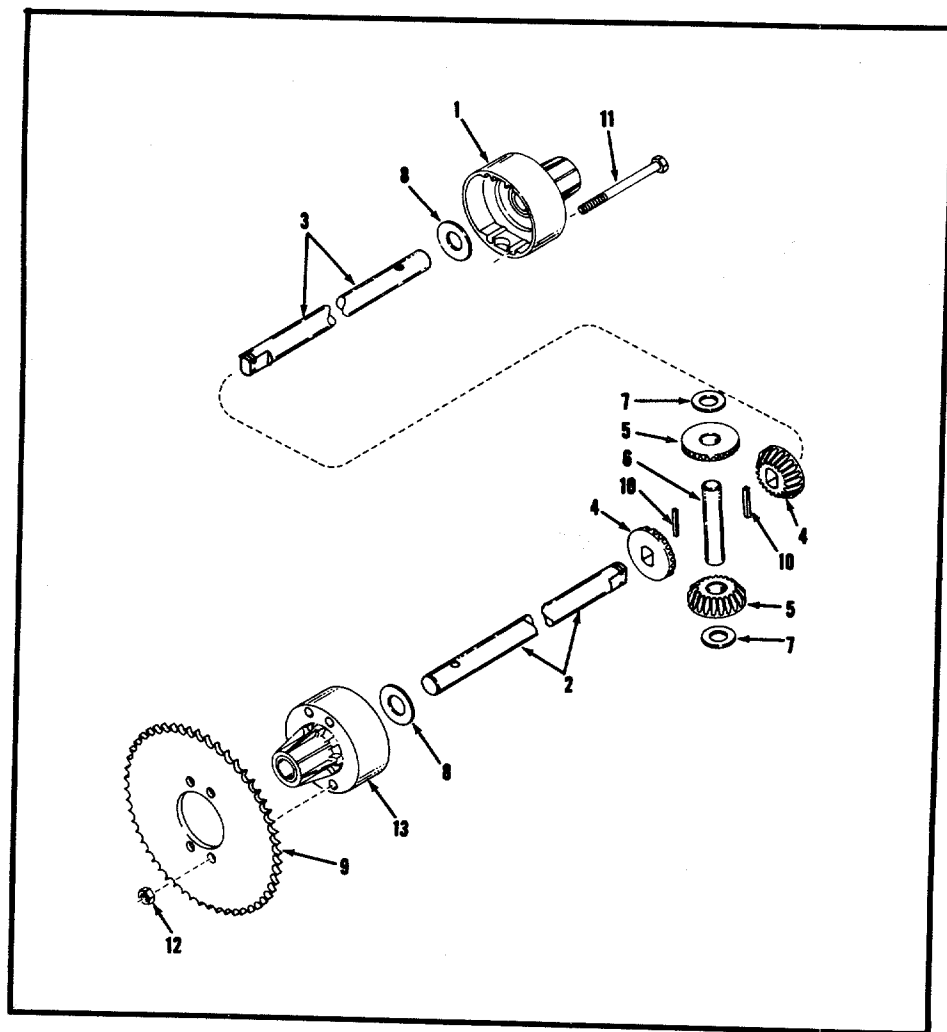


FIGURE 40. MODEL 10483 DIFFERENTIAL

PARTS LIST FOR 10483 DIFFERENTIAL

REF. NO.	PART NO.	DESCRIPTION
1	719-150	Housing Half
2	738-130	Shatt—short
3	738-131	Shatt—Long
4	748-185	Gear—Double "D" Hole
5	748-158	Gear—Round Hole
6	711-276	Drive Pin
7	736-182	Flat Washer
8	736-188	Washer
9	310-9*33	Sprocket
10	715-247	Spirol Pin 3/16 x 1"
11	710-526	Hex Head Cap Scr. 5/16-24 x 4
12	712-237	Hex Locknut 5/16-24
13	719-150	Housing Half

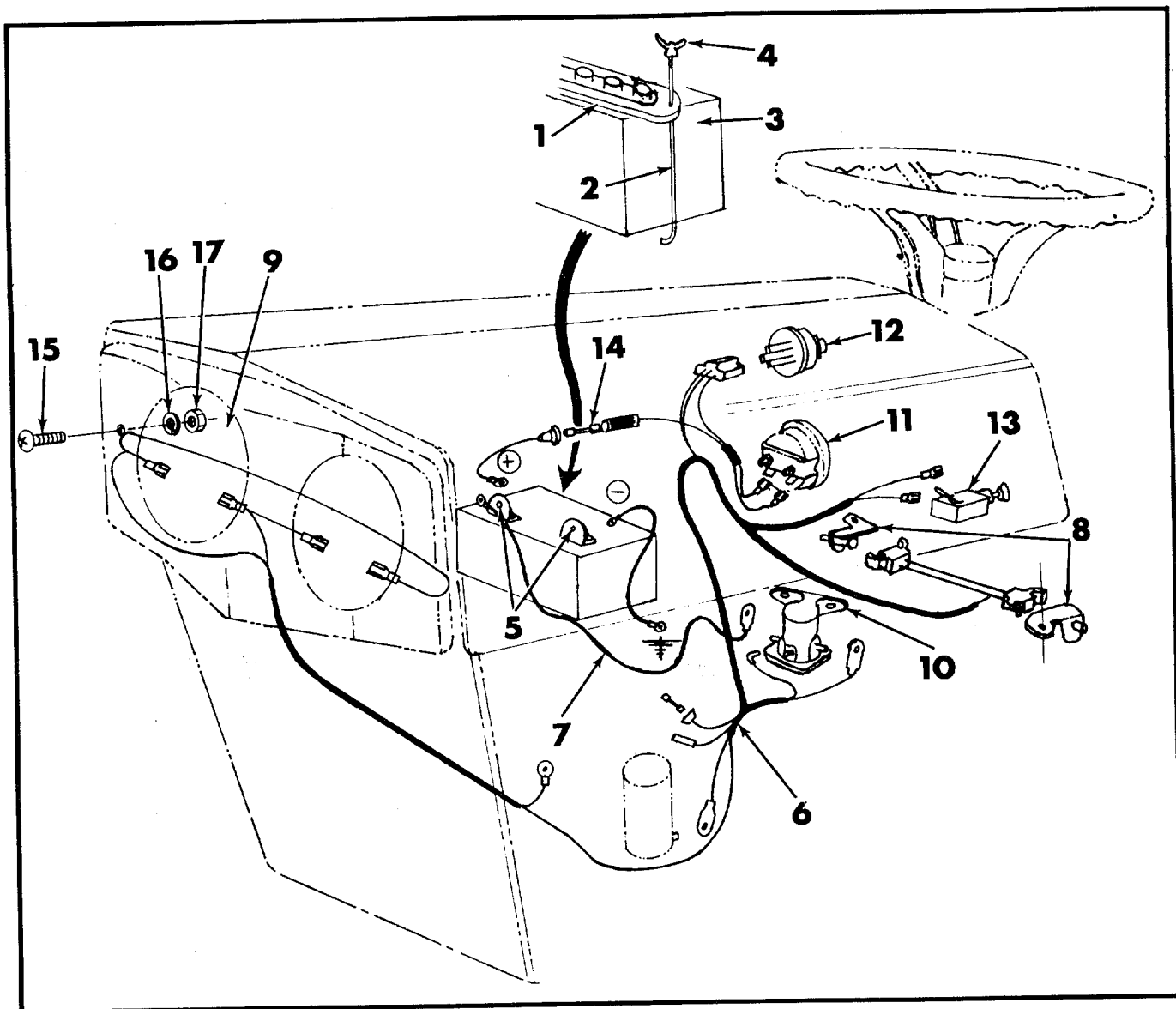


FIGURE 41. ELECTRICAL SYSTEM ELECTRIC START MODEL

PARTS LIST FOR ELECTRICAL SYSTEM ON THE ELECTRIC START MODEL

REF. NO.	PART NO.	DESCRIPTION
1	321-8821	Hold Down
2	711-222	Hold Down Rod
3	725-117	Battery
4	712-113	Wing Nut 1/4-20 Thd.
5	710-258	Hex head Cap Scr. 1/4-20 x 5/8
	736-329	Spring Lockwasher 1/4 Scr.
	712-287	Hex Nut 1/4-20 Thd.
6	725-279	Wire Harness
7	725-122	Wire
8	725-268	Safety Switch Black
9	725-222	Head Light
10	725-270	Solenoid
11	725-119	Ammeter
12	725-267	Key switch
	725-201	Key Only
13	725-202	Light Switch
14	725-298	7 1/2 AMP fuse
15	710-346	Hex Head Cap Scr. 1/4-20 x 1 1/2
16	736-329	Spring Lockwasher 1/4 Scr.
17	712-287	Hex Nut 1/4-20 Thd.

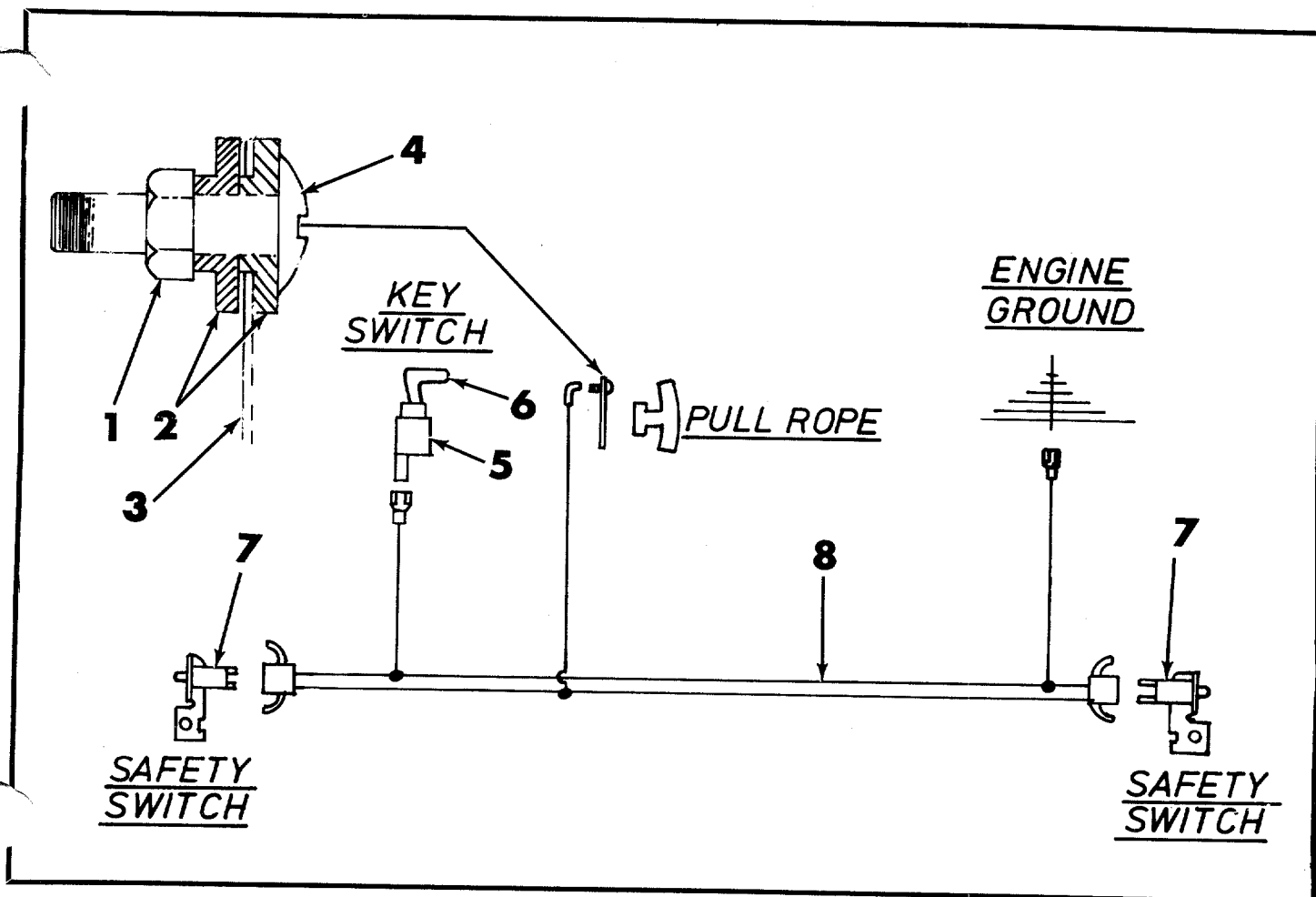


FIGURE 42. ELECTRICAL SYSTEM ON THE RECOIL START MODEL

PARTS LIST FOR THE ELECTRICAL SYSTEM ON THE RECOIL START MODEL

REF. NO.	PART NO.	DESCRIPTION
1	712-121	Hex Nut #10-24 Thd.
2	736-338	Fiber Washer
3	732-257	Switch Spring
4	710-425	Truss Head Mach. Scr. #10-24 Thd.
5	725-266	Ignition Switch
6	725-128	Ignition Key
7	725-269	Safety Switch—Red
8	725-274	Wire Harness

BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months determined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

BATTERY MANUFACTURER MEMBERSHIP LIST

ALABAMA Birmingham Southern Bty. Yocam Batteries Mobile Yocam Batteries Montgomery Ebco Battery	Express Bty. Div. Leeth Brothers FLORIDA Fort Lauderdale Florida Bty. Hialeah East Penn Mfg. Jacksonville Tropex Batteries Yocam Batteries Miami Tropex Batteries Yocam Batteries Orlando Yocam Batteries Pensacola Yocam Batteries St. Petersburg Electro Battery Co. Tampa Bilt-Rite Bty. Mfg. Contract Bty. Mfg. DeSoto Bty. & Elec. Tropex Batteries Yocam Batteries	Contract Bty. Mfg. Yocam Batteries ILLINOIS Belleville Bell City Bty. Mfg. Chicago Illinois Bty. Mfg. Universal Bty. Volta Bty. Corp. Peoria Red Diamond Bty. INDIANA Muncie Stout Storage Bty. IOWA Corydon Votmaster Council Bluffs Reliance Bty. Prod. Des Moines Votmaster KANSAS Kansas City American Batteries Contract Bty. Mfg. KENTUCKY Whitesburg Electro-Lite Bty. LOUISIANA New Orleans Central Bty. Reliable Bty.	Shreveport Central Bty. MARYLAND Baltimore East Penn Mfg. MASSACHUSETTS Watertown Atlantic Bty. MICHIGAN Detroit Batteries Mfg. Flint ABC Batteries Holly Detroit Battery Madison Heights C & W Lektra Warren G & M Battery MINNESOTA St. Paul Standard Storage Bty. MISSISSIPPI Florence Contract Bty. Mfg. Jackson Central Bty. New Albany Laher Bty. Prod. MISSOURI Joplin Lead Products	Maryland Heights Electro Bty. Mfg. Sikeston Electro Bty. NEW JERSEY Atlantic City Landis Battery NEW MEXICO Albuquerque Sandia Bty. Mfg. NEW YORK Buffalo East Penn Mfg. Lockport Great Lakes Battery NORTH CAROLINA Charlotte Yocam Batteries Thomasville East Penn Mfg. OHIO Akron Crown Battery Cincinnati Moore Battery Cleveland Crown Battery New Castle Bty. Columbus Crown Battery Fremont Crown Battery	OREGON Beaverton Western Bty., Inc. Portland Laher Bty. Prod. PENNSYLVANIA Alltoona East Penn Mfg. Erie New Castle Bty. Lancaster Lancaster Bty. Lyon Station East Penn Mfg. New Castle New Castle Bty. Philadelphia East Penn Mfg. Pittsburgh Simon Bty. & Res. Geidel Bty. Div. RHODE ISLAND Providence Pilof Mfg., Inc. SOUTH CAROLINA Columbia Yocam Batteries TENNESSEE Chattanooga Electro-Lite Bty. Knoxville Southern Bty.	Memphis Central Battery Laher Bty. Prod. Southern Bty. Nashville Electro-Lite Bty. Southern Bty. TEXAS Dallas Continental Bty. Reliable Battery El Paso El Paso Bty. Houston Texford Bty. Co. Reliable Battery San Antonio Reliable Battery UTAH Salt Lake City Laher Bty. Prod. VIRGINIA Arlington Express Bty. Div. Leeth Bros. Lynchburg Hydrate Battery WASHINGTON Seattle Laher Bty. Prod. Spokane Laher Bty. Prod. CANADA Vancouver, B. C. Industrial Bty. & Supply
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WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

PARTS INFORMATION

MOWER, TILLER, SNOW THROWER AND TRACTOR PARTS

Mower, tiller, snow thrower and tractor parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Barley's Rebuild Inc.
1325 E. Madison Street
Seattle, Washington 98102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

R. T. Clapp Co.
2016 Magnolia Ave., N. E.
Knoxville, Tennessee 37917

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
615 W. Genesee Street
Syracuse, New York 13204

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa, Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis, Tennessee 38103

ENGINE PARTS AND SERVICE

Engine parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines - Gasoline*, Briggs and Stratton or Tecumseh Lauson - Power Products.

Moz-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

National Central, Div. of Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043

Parts & Sales Inc.
335 West St. Charles Road
Villa Park, Illinois 60181

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Richmond Battery & Ignition
P. O. Box 25369 - 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423